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PRODUCTIVITY AND COSTS

Second Quarter 2000

The Bureau of Labor Statistics of the U.S. Department of Labor reported preliminary productivity data—as measured by output per hour of all persons—for the second quarter of 2000. The preliminary seasonally adjusted annual rates of productivity change in the second quarter were:

6.2 percent in the business sector and
5.3 percent in the nonfarm business sector.

In both the business and nonfarm business sectors, productivity grew more rapidly in the second quarter than in the first quarter, when output per hour of all persons (as revised) rose 1.6 percent in the business sector and 1.9 percent in the nonfarm business sector.

In manufacturing, productivity changes in the second quarter were:

5.1 percent in manufacturing,
9.6 percent in durable goods manufacturing, and
0.0 percent in nondurable goods manufacturing.

Productivity rose 5.1 percent in the manufacturing sector in the second quarter as output and hours of all persons increased 7.0 percent and 1.7 percent, respectively. In the first quarter, manufacturing productivity rose 7.9 percent (as revised). Output and hours in manufacturing, which includes about 17 percent of U.S. business-sector employment, tend to vary more from quarter to quarter than data for the more aggregate business and nonfarm business sectors. Second-quarter measures are summarized in table A and appear in detail in tables 1 through 5.

The data in this release reflect the regular multi-year GDP revisions released by the Bureau of Economic Analysis of the U.S. Department of Commerce on July 28. They also reflect the annual benchmark revision to the BLS establishment survey data and revisions to hours series released by BLS on June 2. All employment and hours series incorporate new information on seasonal patterns. In addition, measures of output for the manufacturing sectors were revised. See Revised Measures, page 4. Appendix tables 1-6 show revised historical series.

Table A. Productivity and costs: Preliminary second-quarter 2000 measures
(Seasonally adjusted annual rates)

Sector	Productivity	Output	Hours	Hourly compensation	Real hourly compensation	Unit labor costs
Percent change from preceding quarter						
Business	6.2	5.7	-0.4	6.3	2.6	0.1
Nonfarm business	5.3	5.9	0.5	5.3	1.6	-0.1
Manufacturing	5.1	7.0	1.7	4.4	0.8	-0.7
Durable	9.6	13.3	3.4	3.8	0.2	-5.3
Nondurable	0.0	-0.8	-0.8	5.1	1.5	5.1
Percent change from same quarter a year ago						
Business	5.0	6.9	1.7	4.7	1.4	-0.3
Nonfarm business	5.1	7.0	1.8	4.7	1.4	-0.4
Manufacturing	6.9	6.4	-0.4	4.9	1.6	-1.9
Durable	9.5	10.2	0.7	4.9	1.6	-4.2
Nondurable	3.8	1.6	-2.1	4.6	1.3	0.8

The data sources and methods used in the preparation of the manufacturing series differ from those used in preparing the business and nonfarm business series, and these measures are not directly comparable. Output measures for business and nonfarm business are based on measures of gross domestic product prepared by the Bureau of Economic Analysis of the U.S. Department of Commerce. Quarterly output measures for manufacturing reflect indexes of industrial production independently prepared by the Board of Governors of the Federal Reserve System. See Technical Notes for further information on data sources (page 6).

Business

From the first to the second quarter of 2000, business sector productivity increased at a 6.2-percent annual rate, as output rose 5.7 percent and hours of all persons engaged in the sector fell at a 0.4-percent annual rate. As revised, labor productivity rose 1.6 percent in the first quarter as output and hours increased 5.3 and 3.7 percent, respectively (table 1).

Hourly compensation increased 6.3 percent in the second quarter and 3.5 percent in the first quarter of 2000 (seasonally adjusted annual rates). This measure includes wages and salaries, supplements, employer contributions to employee benefit plans, and taxes. Unit labor costs, which reflect changes in both hourly compensation and productivity, edged up 0.1 percent during the second quarter, following a 1.9-percent rise in the first quarter of 2000.

Real hourly compensation, which takes into account changes in consumer prices, rose at a 2.6 percent annual rate during the second quarter of 2000 after declining 0.4 percent in the previous quarter.

The implicit price deflator for the business sector, which reflects changes in unit labor costs and unit nonlabor payments, increased 2.5 percent in the second quarter and 3.0 percent in the first quarter of 2000.

Nonfarm business

Productivity increased 5.3 percent in the nonfarm business sector during the second quarter of 2000, after rising 1.9 percent in the first quarter (table 2). Output rose 5.9 percent in the second quarter, after increasing 5.2 percent during the first quarter of 2000. Hours of all persons working in the sector increased 0.5 percent in the second quarter. This was the smallest increase in hours since the first quarter of 1996 (when they fell 0.1 percent) and followed a 3.2 percent rise in the first quarter of 2000.

Hourly compensation increased 5.3 percent in the second quarter, after posting a 3.9-percent gain in the first quarter of 2000. When the rise in consumer prices is taken into account, real hourly compensation for the second quarter of 2000 rose 1.6 percent.

Unit labor costs decreased 0.1 percent in the second quarter of 2000, after rising 1.9 percent one quarter earlier. The implicit price deflator for nonfarm business output grew 2.2 percent in the second quarter and 3.2 percent in the first quarter of 2000.

Manufacturing

Productivity increased 5.1 percent in manufacturing, as output rose 7.0 percent and hours of all persons increased 1.7 percent (seasonally adjusted annual rates). Growth in productivity, output, and hours was quite different in the durable and nondurable goods subsectors. In durable goods, productivity rose 9.6 percent, reflecting output growth of 13.3 percent and a 3.4-percent rise in hours of all persons. In nondurable goods, productivity remained unchanged in the second quarter, as output and hours both fell 0.8 percent (tables 3, 4, and 5).

Hourly compensation of all manufacturing workers increased 4.4 percent during the second quarter. This reflects growth of 3.8 percent in durable goods and 5.1 percent in nondurable goods. When the increase in consumer prices is taken into account, the real hourly compensation of all manufacturing workers rose 0.8 percent in the second quarter.

Unit labor costs in manufacturing dropped 0.7 percent in the second quarter. This marked the third consecutive quarter of falling unit labor costs for the total manufacturing sector; unit labor costs fell 3.0 percent in the first quarter of 2000 and 5.1 percent in the fourth quarter of 1999. In the second quarter of 2000, trends in unit labor costs in the two subsectors were quite different, reflecting the very different growth rates in productivity. Unit labor costs fell 5.3 percent in durable goods manufacturing and rose 5.1 percent in nondurable goods manufacturing. The increase in unit labor costs in nondurable goods manufacturing was the largest since a 5.8-percent rise was posted in the second quarter of 1993.

Revised Measures

Current and previous measures for the first quarter of 2000 for the business, nonfarm business, and manufacturing sectors are compared in table B. In the business and nonfarm business sectors, both the output and hours measures grew less than reported on June 6, based on information then available. Labor productivity growth was revised down. In manufacturing, productivity growth was revised up to reflect higher output growth and a larger drop in hours than originally reported.

Table B. Previous and revised productivity and related measures Quarterly percent change at seasonally adjusted annual rate						
Sector	Productivity	Output	Hours	Hourly compensation	Real hourly compensation	Unit labor costs
First quarter 2000						
Business:						
Previous	1.8	6.1	4.2	3.5	-0.3	1.7
Current	1.6	5.3	3.7	3.5	-0.4	1.9
Nonfarm business:						
Previous	2.4	6.1	3.6	4.1	0.2	1.6
Current	1.9	5.2	3.2	3.9	0.0	1.9
Manufacturing:						
Previous	7.3	6.8	-0.5	3.6	-0.3	-3.4
Current	7.9	7.1	-0.7	4.6	0.7	-3.0

Data on manufacturing output for 1997 and 1998 were revised to reflect newly available data on shipments from the U.S. Census Bureau. There also were small revisions to earlier years reflecting the incorporation of new data associated with the 1999 comprehensive revisions to the National Income and Product Accounts.

Output data for the business and nonfarm business sectors and compensation series for all sectors incorporate the revisions of the national income and product accounts produced by the Bureau of Economic Analysis, U.S. Department of Commerce. In addition, small changes have been made to the historical estimates of employment in for-profit organizations and corporations. Labor input measures have been revised further to reflect the annual benchmarking of employment levels derived from the monthly Current Employment Statistics (CES) survey that occurred on June 2. Updated seasonal adjustment factors also have been incorporated into the labor input measures. These revisions extend back to the first quarter of 1995. Appendix tables 1-6 present quarterly and annual measures for all sectors for 1995-97.

Revised measures: Nonfinancial Corporations

Productivity and cost measures for the first quarter for nonfinancial corporations also were revised to incorporate more recent information than was available on June 6. Productivity, output, employee hours, and hourly compensation grew more slowly than previously reported. Unit profits and the implicit price deflator were revised up from the preliminary estimates reported in June (table C).

Table C. Nonfinancial corporations: Previous and revised productivity and cost measures Quarterly percent changes at seasonally adjusted annual rates								
	Produc- tivity	Output	Hours	Hourly compen- sation	Real hourly compen- sation	Unit labor costs	Unit profits	Implicit price deflator
First quarter 2000								
Previous	3.6	7.3	3.6	3.5	-0.4	-0.1	14.3	1.6
Current	2.9	6.2	3.2	2.7	-1.1	-0.2	14.9	2.3

Next release date

The next release of **Productivity and Costs** is scheduled for **8:30 a.m. EDT, Wednesday, Sept. 6, 2000**. Revised second-quarter measures for business, nonfarm business, and manufacturing will be released at that time, along with measures for nonfinancial corporations.

TECHNICAL NOTES

Labor Hours: Hours data for the labor productivity and cost measures include hours for all persons working in the sector—wage and salary workers, the self-employed, and unpaid family workers. The primary source of hours and employment data is the BLS Current Employment Statistics (CES) program, which provides monthly survey data on the number of jobs held by wage and salary workers in nonfarm establishments. The CES also provides average weekly paid hours of production and nonsupervisory workers in these establishments. Average weekly paid hours of nonproduction and supervisory workers are estimated by the Office of Productivity and Technology. Weekly paid hours are adjusted to hours at work using the BLS Hours at Work survey, conducted for this purpose.

Data from the BLS Current Population Survey (CPS) are used for farm labor; in the non-farm sector, the National Income and Product Accounts (NIPA) prepared by the Bureau of Economic Analysis (BEA) of the Department of Commerce and the CPS are used to measure labor input for government enterprises, proprietors, and unpaid family workers.

Output: Business sector output is an annual-weighted index constructed after excluding from gross domestic product (GDP) the following outputs: General government, nonprofit institutions, paid employees of private households, and the rental value of owner-occupied dwellings. Corresponding exclusions also are made in labor inputs. Business output accounted for about 77 percent of the value of GDP in 1996. Nonfarm business, which also excludes farming, accounted for about 76 percent of GDP in 1996.

Annual indexes for manufacturing and its durable and nondurable goods components are constructed by deflating current-dollar industry value of production data from the U.S. Bureau of the Census with deflators from the BEA. These deflators are based on data from the BLS producer price program and other sources. The industry shipments are aggregated using annual weights, and intrasector transactions are removed. Quarterly manufacturing output measures are based on the index of industrial production prepared monthly by the Board of Governors of the Federal Reserve System adjusted to be consistent with annual indexes of manufacturing sector

output prepared by BLS. Durables include the following 2-digit SIC industries: Primary metal industries; fabricated metal products; nonelectrical machinery; industrial and commercial machinery and computer equipment; electronic and other electrical equipment; transportation equipment; instruments; lumber and lumber products; furniture and fixtures; stone, clay, and glass and concrete products; and miscellaneous manufactures. Non-durables include: Food and kindred products, tobacco products, textile mill products, apparel products, paper and allied products, printing and publishing, chemicals and chemical products, petroleum refining and related industries, rubber and plastic products, and leather and leather products.

Nonfinancial corporate output is an annual-weighted index constructed by excluding from GDP the following outputs: General government; nonprofit institutions; employees of private households; the rental value of owner-occupied dwellings; unincorporated business; and those corporations which are depository institutions, nondepository institutions, security and commodity brokers, insurance carriers, regulated investment offices, small business investment offices, and real estate investment trusts. Nonfinancial corporations accounted for about 54 percent of the value of GDP in 1996.

Productivity: These productivity measures describe the relationship between real output and the labor time involved in its production. They show the changes from period to period in the amount of goods and services produced per hour. Although these measures relate output to hours at work of all persons engaged in a sector, they do not measure the specific contribution of labor, capital, or any other factor of production. Rather, they reflect the joint effects of many influences, including changes in technology; capital investment; level of output; utilization of capacity, energy, and materials; the organization of production; managerial skill; and the characteristics and effort of the work force.

Information in this release will be made available to sensory-impaired individuals upon request. Voice phone: 202-691-5200; Federal Relay Service number: 1-800-877-8339.

Table 1. Business sector: Productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs	Unit non-labor payments (3)	Implicit price deflator (4)
Indexes 1992=100									
1998	I	r109.7	r126.8	115.6	r117.1	r102.9	r106.7	r116.4	r110.3
	II	r110.0	r127.7	116.1	r118.5	r103.8	r107.7	r115.1	r110.5
	III	r110.6	r128.9	r116.6	r120.0	r104.7	r108.5	r114.6	r110.7
	IV	r111.6	r131.0	r117.4	r121.4	r105.5	r108.8	r114.6	r110.9
	ANNUAL	110.5	r128.6	r116.4	r119.3	r104.3	r107.9	r115.2	r110.6
1999	I	r112.6	r132.3	117.5	r123.0	r106.4	r109.3	r115.1	r111.4
	II	r112.8	r133.1	r118.0	r124.5	r106.9	r110.4	r114.1	r111.8
	III	114.2	r135.3	r118.5	r126.1	r107.6	r110.5	r114.3	r111.9
	IV	r116.3	r138.5	r119.1	r127.3	r107.8	r109.5	r116.8	r112.2
	ANNUAL	114.0	r134.8	r118.3	r125.2	r107.3	r109.9	r115.1	r111.8
2000	I	r116.7	r140.3	r120.2	r128.4	r107.7	r110.0	r118.2	r113.0
	II	118.5	142.2	120.1	130.4	108.4	110.0	120.0	113.7
Percent change from previous quarter at annual rate(5)									
1998	I	r4.7	r7.9	r3.1	r6.2	r5.5	r1.5	r-1.5	r0.3
	II	r1.1	r2.9	r1.7	r5.1	r3.5	r3.9	r-4.2	0.7
	III	r2.1	r3.7	r1.5	r5.1	r3.6	r3.0	r-1.9	r1.1
	IV	r3.9	r6.8	r2.8	r4.8	r3.2	r0.9	r0.2	r0.6
	ANNUAL	r2.7	r5.0	r2.3	r5.3	r3.9	r2.5	r-1.7	r0.8
1999	I	r3.3	r3.8	r0.5	r5.2	r3.6	r1.9	r1.8	r1.9
	II	r0.9	r2.6	r1.7	r5.0	r1.7	r4.1	r-3.5	r1.2
	III	r4.9	r6.6	1.7	r5.3	r2.6	r0.4	r0.7	r0.5
	IV	r7.7	r9.9	r2.1	r3.8	r0.9	r-3.6	r9.0	r1.0
	ANNUAL	r3.1	r4.8	r1.6	5.0	r2.9	1.8	r0.0	r1.1
2000	I	r1.6	r5.3	r3.7	3.5	r-0.4	r1.9	r4.8	r3.0
	II	6.2	5.7	-0.4	6.3	2.6	0.1	6.4	2.5
Percent change from corresponding quarter of previous year									
1998	I	3.2	r5.8	r2.5	r4.5	r3.1	r1.2	r0.9	r1.1
	II	2.5	4.7	2.1	5.5	4.0	2.9	r-2.4	r0.8
	III	r2.1	r4.4	r2.2	r5.7	r4.3	r3.5	r-3.3	r0.8
	IV	r2.9	r5.3	r2.3	r5.3	4.0	r2.3	-1.9	r0.7
	ANNUAL	r2.7	r5.0	r2.3	r5.3	r3.9	r2.5	r-1.7	r0.8
1999	I	r2.6	r4.3	1.6	r5.1	r3.5	r2.4	r-1.0	r1.1
	II	r2.5	r4.2	r1.6	r5.0	r3.0	r2.4	r-0.9	r1.2
	III	3.2	4.9	r1.7	r5.1	r2.8	r1.8	r-0.2	r1.0
	IV	r4.1	r5.7	r1.5	r4.8	r2.2	0.7	r1.9	r1.1
	ANNUAL	r3.1	r4.8	r1.6	5.0	r2.9	1.8	r0.0	r1.1
2000	I	r3.7	r6.1	r2.3	r4.4	r1.2	r0.7	2.7	1.4
	II	5.0	6.9	1.7	4.7	1.4	-0.3	5.2	1.8

See footnotes following Table 6.
r=revised

August 8, 2000
Source: Bureau of Labor Statistics

Table 2. Nonfarm business sector: Productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs	Unit non-labor payments (3)	Implicit price deflator (4)
Indexes 1992=100									
1998	I	r109.3	r127.1	116.3	r116.4	r102.3	r106.5	r117.4	110.5
	II	r109.8	r128.1	116.7	r117.9	r103.2	r107.5	r116.3	r110.7
	III	r110.3	r129.2	r117.2	r119.4	r104.2	r108.3	r115.8	r111.0
	IV	r111.2	r131.4	r118.1	r120.8	r104.9	r108.5	r115.8	r111.2
	ANNUAL	r110.2	r129.0	r117.1	r118.6	r103.8	r107.7	r116.3	r110.8
1999	I	r112.0	r132.6	r118.4	r122.1	r105.7	r109.0	r116.7	r111.8
	II	r112.1	133.4	r118.9	r123.6	r106.1	r110.2	r115.7	r112.2
	III	r113.6	135.6	r119.4	r125.2	r106.8	r110.3	r116.1	r112.4
	IV	r115.8	r138.9	r120.0	r126.5	r107.2	r109.3	r118.6	r112.7
	ANNUAL	r113.4	r135.1	r119.2	r124.4	r106.5	r109.7	r116.8	r112.3
2000	I	116.3	r140.7	r120.9	r127.8	r107.2	r109.8	r120.1	r113.6
	II	117.9	142.7	121.1	129.4	107.6	109.8	121.8	114.2
Percent change from previous quarter at annual rate(5)									
1998	I	r4.5	r8.2	r3.5	r6.1	r5.3	r1.5	r-1.4	r0.4
	II	r1.6	r3.1	r1.5	r5.3	r3.8	r3.6	r-3.8	r0.7
	III	r1.8	r3.7	r1.8	r5.2	r3.7	r3.3	r-1.8	r1.3
	IV	r3.6	r6.8	3.1	r4.5	r2.8	r0.8	r0.2	r0.6
	ANNUAL	r2.6	r5.1	2.4	r5.1	r3.7	2.4	r-1.4	r0.9
1999	I	r2.6	r3.6	r1.0	r4.5	r2.8	r1.8	r2.9	r2.2
	II	r0.6	r2.4	r1.8	r5.0	r1.7	r4.3	-3.1	r1.5
	III	r5.2	r7.0	1.7	r5.5	r2.8	r0.3	r1.3	r0.6
	IV	r8.0	r10.0	r1.8	r4.2	r1.3	r-3.5	r8.9	r1.0
	ANNUAL	r2.9	4.8	r1.8	r4.8	r2.7	r1.8	r0.4	r1.3
2000	I	r1.9	r5.2	r3.2	r3.9	r0.0	r1.9	r5.2	r3.2
	II	5.3	5.9	0.5	5.3	1.6	-0.1	5.9	2.2
Percent change from corresponding quarter of previous year									
1998	I	3.0	r5.8	r2.7	r4.3	r2.9	r1.2	r1.3	1.2
	II	2.5	4.8	2.3	r5.3	3.8	2.8	r-2.1	0.9
	III	r2.1	r4.6	r2.4	r5.7	r4.2	r3.5	r-3.1	r0.9
	IV	r2.9	r5.4	r2.5	r5.3	r3.9	r2.3	r-1.7	r0.8
	ANNUAL	r2.6	r5.1	2.4	r5.1	r3.7	2.4	r-1.4	r0.9
1999	I	r2.4	r4.3	r1.8	r4.9	r3.3	r2.4	r-0.7	r1.2
	II	r2.2	r4.1	r1.9	r4.8	r2.8	r2.6	r-0.5	r1.4
	III	r3.0	r4.9	1.9	r4.8	r2.6	r1.8	r0.3	r1.2
	IV	r4.1	r5.7	r1.6	r4.8	r2.2	r0.7	r2.4	r1.3
	ANNUAL	r2.9	4.8	r1.8	r4.8	r2.7	r1.8	r0.4	r1.3
2000	I	r3.9	r6.1	r2.1	r4.6	r1.5	r0.7	r3.0	1.6
	II	5.1	7.0	1.8	4.7	1.4	-0.4	5.3	1.7

See footnotes following Table 6.
r=revised

August 8, 2000
Source: Bureau of Labor Statistics

Table 3. Manufacturing sector: Productivity, hourly compensation, and unit labor costs, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1998	I	r121.3	r128.5	106.0	r115.2	r101.2	r95.0
	II	r122.7	r129.5	105.6	r116.6	r102.1	r95.1
	III	r125.1	r130.7	r104.5	r118.1	r103.0	r94.4
	IV	r126.8	r132.6	r104.5	r119.4	r103.7	r94.1
	ANNUAL	r123.9	r130.3	r105.2	r117.3	r102.6	r94.6
1999	I	r128.9	r133.4	r103.5	r120.7	r104.4	r93.6
	II	r130.4	r135.0	r103.5	r122.4	r105.1	r93.8
	III	r131.9	r136.5	r103.5	r124.1	r105.9	r94.1
	IV	r135.1	r138.9	r102.8	r125.5	r106.4	r92.9
	ANNUAL	r131.6	r136.0	r103.3	r123.2	r105.5	r93.6
2000	I	r137.7	r141.3	r102.6	r127.0	r106.5	r92.2
	II	139.4	143.7	103.0	128.3	106.8	92.0
Percent change from previous quarter at annual rate(5)							
1998	I	r3.9	r4.0	0.1	r6.8	r6.0	r2.8
	II	r4.8	r3.2	r-1.6	r5.0	r3.4	r0.2
	III	r8.1	r3.7	r-4.1	r5.0	r3.5	r-2.8
	IV	r5.6	r5.7	r0.1	r4.6	r2.9	r-1.0
	ANNUAL	r5.4	r5.1	r-0.3	r5.3	r3.9	r-0.1
1999	I	r6.8	2.5	r-4.0	r4.5	r2.8	r-2.2
	II	r4.8	4.9	r0.1	5.7	r2.5	r0.9
	III	r4.5	4.6	r0.1	5.9	3.2	r1.4
	IV	r10.2	7.1	r-2.8	r4.6	r1.7	r-5.1
	ANNUAL	r6.2	r4.3	r-1.7	5.0	r2.9	r-1.1
2000	I	r7.9	r7.1	r-0.7	r4.6	r0.7	r-3.0
	II	5.1	7.0	1.7	4.4	0.8	-0.7
Percent change from corresponding quarter of previous year							
1998	I	r5.3	r6.3	0.9	r4.4	r3.0	r-0.9
	II	r5.5	r5.5	0.0	r5.6	r4.0	r0.1
	III	r5.4	r4.6	r-0.7	r5.9	r4.4	r0.5
	IV	r5.6	r4.2	r-1.4	r5.3	r4.0	r-0.2
	ANNUAL	r5.4	r5.1	r-0.3	r5.3	r3.9	r-0.1
1999	I	r6.3	r3.8	r-2.4	r4.8	r3.2	r-1.5
	II	r6.3	r4.2	r-2.0	r4.9	r2.9	r-1.3
	III	r5.4	4.4	r-0.9	r5.2	r2.9	r-0.2
	IV	r6.5	4.8	r-1.7	r5.2	r2.5	r-1.3
	ANNUAL	r6.2	r4.3	r-1.7	5.0	r2.9	r-1.1
2000	I	r6.8	r5.9	r-0.8	r5.2	r2.0	r-1.5
	II	6.9	6.4	-0.4	4.9	1.6	-1.9

See footnotes following Table 6.
r=revised

August 8, 2000
Source: Bureau of Labor Statistics

Table 4. Durable manufacturing sector: Productivity, hourly compensation, and unit labor costs, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1998	I	r129.6	r144.5	r111.5	r112.6	r99.0	r86.9
	II	r131.9	r146.7	r111.2	r113.8	r99.6	r86.2
	III	r136.1	r150.0	r110.2	r115.1	r100.4	r84.5
	IV	r138.9	r153.5	r110.5	r116.6	r101.3	r83.9
	ANNUAL	r134.1	r148.7	r110.8	r114.5	r100.1	r85.4
1999	I	r141.9	r154.7	r109.0	r118.1	r102.2	r83.2
	II	r145.1	r158.2	r109.0	r120.1	r103.1	r82.7
	III	r147.1	r161.5	r109.8	r121.9	r104.0	r82.8
	IV	r150.7	r164.3	r109.0	r123.6	r104.7	r82.0
	ANNUAL	r146.2	r159.7	r109.2	r120.9	r103.6	r82.7
2000	I	r155.3	r169.0	r108.8	r124.8	r104.7	r80.4
	II	158.9	174.3	109.7	125.9	104.8	79.3
Percent change from previous quarter at annual rate(5)							
1998	I	r5.5	r7.2	r1.6	r6.2	r5.4	r0.7
	II	r7.4	r6.1	r-1.2	r4.2	r2.6	r-3.0
	III	r13.3	r9.3	r-3.5	r4.6	r3.1	r-7.7
	IV	r8.4	r9.8	r1.3	r5.3	r3.7	r-2.9
	ANNUAL	r8.0	r8.5	r0.5	r5.2	r3.8	r-2.6
1999	I	r8.9	3.1	r-5.4	r5.4	r3.7	r-3.3
	II	r9.4	9.3	r-0.1	r6.8	r3.5	r-2.4
	III	r5.6	8.7	r2.9	r6.2	r3.5	r0.6
	IV	r10.0	7.1	r-2.7	r5.7	r2.8	r-3.9
	ANNUAL	r9.0	r7.4	r-1.5	r5.6	r3.4	r-3.1
2000	I	r12.7	r11.8	r-0.8	r3.9	r0.0	r-7.9
	II	9.6	13.3	3.4	3.8	0.2	-5.3
Percent change from corresponding quarter of previous year							
1998	I	r7.4	r9.4	r1.9	r4.5	r3.1	r-2.7
	II	r7.5	r8.4	0.8	r5.5	r4.0	r-1.9
	III	8.3	r8.2	r-0.1	r5.7	r4.2	r-2.4
	IV	r8.6	r8.1	r-0.5	r5.1	r3.7	r-3.3
	ANNUAL	r8.0	r8.5	r0.5	r5.2	r3.8	r-2.6
1999	I	r9.5	r7.0	r-2.2	r4.9	r3.3	r-4.2
	II	r10.0	r7.8	r-2.0	r5.5	r3.5	r-4.1
	III	r8.1	r7.7	r-0.4	r5.9	r3.6	r-2.0
	IV	r8.5	7.0	r-1.4	r6.0	r3.4	r-2.3
	ANNUAL	r9.0	r7.4	r-1.5	r5.6	r3.4	r-3.1
2000	I	9.4	r9.2	r-0.2	r5.7	r2.5	r-3.4
	II	9.5	10.2	0.7	4.9	1.6	-4.2

See footnotes following Table 6.
r=revised

August 8, 2000
Source: Bureau of Labor Statistics

Table 5. Nondurable manufacturing sector: Productivity, hourly compensation, and unit labor costs, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1998	I	r115.6	r114.0	98.7	r118.3	r104.0	r102.4
	II	r116.0	r113.9	r98.2	r120.1	r105.1	r103.5
	III	r116.7	r113.1	97.0	r121.8	r106.2	r104.4
	IV	r117.4	r113.4	96.6	r122.7	r106.6	r104.6
	ANNUAL	r116.4	r113.6	97.6	r120.7	r105.6	r103.7
1999	I	r118.5	r113.9	r96.1	r123.7	r107.1	r104.4
	II	r118.2	r113.6	r96.2	r124.9	r107.2	r105.7
	III	r119.2	r113.5	95.2	r126.4	r107.8	r106.0
	IV	r122.3	r115.5	r94.5	r127.2	r107.8	r104.0
	ANNUAL	r119.5	r114.1	r95.5	r125.5	r107.5	r105.0
2000	I	r122.7	r115.7	94.4	r129.0	r108.3	r105.2
	II	122.7	115.5	94.2	130.7	108.7	106.5
Percent change from previous quarter at annual rate(5)							
1998	I	r2.6	r0.5	r-2.1	r7.6	r6.8	4.8
	II	r1.7	r-0.3	r-2.0	r6.2	r4.7	r4.4
	III	r2.2	r-2.8	r-4.9	r5.7	r4.2	r3.5
	IV	r2.5	r0.8	r-1.7	r3.1	r1.5	r0.6
	ANNUAL	r2.8	r1.3	-1.5	r5.3	r3.9	r2.4
1999	I	r3.7	1.8	-1.8	r3.2	r1.6	r-0.5
	II	r-1.0	-0.8	r0.3	r3.9	r0.7	r4.9
	III	r3.7	-0.5	r-4.0	r4.9	r2.2	r1.2
	IV	r10.5	7.3	r-2.9	r2.6	r-0.2	r-7.2
	ANNUAL	r2.7	r0.5	-2.1	r4.0	r1.9	r1.3
2000	I	r1.3	r0.7	r-0.6	r5.9	r2.0	r4.5
	II	0.0	-0.8	-0.8	5.1	1.5	5.1
Percent change from corresponding quarter of previous year							
1998	I	r3.5	r3.1	r-0.4	r4.0	r2.6	r0.5
	II	r3.5	r2.3	r-1.2	r5.5	r4.0	r1.9
	III	r2.1	r0.5	-1.6	r6.1	r4.6	r3.9
	IV	r2.3	r-0.5	-2.7	r5.7	r4.3	r3.3
	ANNUAL	r2.8	r1.3	-1.5	r5.3	r3.9	r2.4
1999	I	r2.5	r-0.2	-2.6	r4.6	r3.0	r2.0
	II	r1.8	r-0.3	-2.0	r4.0	r2.0	r2.1
	III	r2.2	0.3	-1.8	r3.8	r1.5	r1.5
	IV	4.1	1.9	-2.1	r3.6	r1.1	r-0.5
	ANNUAL	r2.7	r0.5	-2.1	r4.0	r1.9	r1.3
2000	I	r3.5	r1.6	r-1.8	r4.3	r1.2	r0.7
	II	3.8	1.6	-2.1	4.6	1.3	0.8

See footnotes following Table 6.
r=revised

August 8, 2000
Source: Bureau of Labor Statistics

Table 6. Nonfinancial corporations: Productivity, hourly compensation, unit labor costs, unit profits, and prices, seasonally adjusted

Year and quarter		Output per all-employee hour	Output	Employee hours	Hourly compensation (1)	Real hourly compensation(2)	Unit labor costs	Unit non-labor costs(6)	Total unit costs (7)	Unit profits (8)	Implicit price deflator (4)
Indexes 1992=100											
1998	I	r112.3	r132.4	r117.9	r115.2	r101.2	102.6	r100.5	r102.0	r150.4	r106.1
	II	r113.4	r134.2	r118.3	r116.6	r102.1	r102.8	r100.9	r102.3	r147.2	r106.1
	III	r114.9	r136.6	r118.9	r118.0	r103.0	r102.7	r100.2	r102.1	r151.4	r106.2
	IV	r115.8	r138.6	r119.6	r119.3	r103.7	r103.0	r101.6	r102.6	r144.5	r106.2
	ANNUAL	r114.2	r135.5	r118.6	r117.4	r102.7	r102.8	r100.8	r102.2	r148.3	106.1
1999	I	r117.1	r140.6	r120.0	r120.9	r104.6	r103.2	r100.7	r102.5	r149.7	106.5
	II	r118.2	r142.5	r120.5	r122.4	r105.1	r103.5	r101.4	r103.0	r147.5	106.7
	III	r119.7	r145.0	r121.1	r124.0	r105.8	r103.6	r102.1	r103.2	r143.3	r106.6
	IV	r121.5	148.1	r122.0	r125.3	r106.1	r103.1	r102.5	r103.0	r145.7	r106.6
	ANNUAL	r119.2	r144.0	r120.9	r123.2	r105.5	r103.4	r101.7	r102.9	r146.5	r106.6
2000	I	r122.3	r150.4	r122.9	r126.1	r105.8	r103.1	r103.3	r103.1	r150.9	r107.2
Percent change from previous quarter at annual rate(5)											
1998	I	r2.6	r6.1	r3.4	r5.4	r4.6	r2.7	r0.3	r2.1	r-14.7	r-0.1
	II	r4.0	r5.6	r1.6	r5.0	r3.4	r1.0	r1.6	r1.1	-8.3	r0.0
	III	r5.2	r7.4	r2.0	r5.0	r3.5	r-0.2	r-2.5	r-0.8	r11.9	r0.6
	IV	r3.4	r5.9	r2.5	r4.4	r2.8	r1.0	r5.5	r2.2	r-17.0	r-0.3
	ANNUAL	r3.6	r6.5	r2.8	r4.8	r3.4	r1.2	r0.0	r0.8	r-5.3	0.1
1999	I	r4.4	r5.7	r1.3	r5.3	r3.6	r0.9	r-3.5	r-0.3	r15.1	r1.4
	II	r3.8	r5.5	r1.7	r5.0	r1.8	r1.2	r3.0	r1.7	r-5.6	r0.8
	III	r5.1	r7.2	r2.0	r5.4	r2.7	r0.3	r2.6	r0.9	r-11.1	r-0.6
	IV	r6.1	r9.0	r2.8	r4.1	r1.2	r-1.8	r1.9	r-0.9	r7.1	r0.0
	ANNUAL	r4.3	r6.3	r1.9	4.9	2.8	r0.6	r0.9	r0.7	r-1.2	r0.4
2000	I	r2.9	r6.2	r3.2	r2.7	r-1.1	r-0.2	r3.0	r0.7	r14.9	r2.3
Percent change from corresponding quarter of previous year											
1998	I	r3.2	r6.8	r3.5	r4.0	r2.6	r0.8	r-0.1	r0.5	r-2.7	0.1
	II	r3.8	r6.7	r2.8	r5.0	r3.5	r1.1	r-0.5	r0.7	r-5.2	r0.0
	III	r3.6	r6.4	r2.7	r5.3	r3.8	r1.6	r-0.6	r1.0	r-5.6	0.1
	IV	r3.8	r6.2	r2.4	r4.9	r3.6	r1.1	r1.2	r1.1	r-7.7	r0.0
	ANNUAL	r3.6	r6.5	r2.8	r4.8	r3.4	r1.2	r0.0	r0.8	r-5.3	0.1
1999	I	r4.2	r6.1	r1.8	r4.9	r3.3	r0.7	r0.2	r0.5	r-0.5	0.4
	II	r4.2	r6.1	r1.9	r4.9	r2.9	r0.7	r0.5	r0.7	r0.2	0.6
	III	r4.2	r6.1	r1.9	r5.0	r2.7	r0.8	r1.8	1.1	r-5.4	r0.3
	IV	r4.8	r6.9	r1.9	r5.0	r2.4	r0.1	r0.9	r0.3	r0.9	r0.4
	ANNUAL	r4.3	r6.3	r1.9	4.9	2.8	r0.6	r0.9	r0.7	r-1.2	r0.4
2000	I	r4.5	r7.0	r2.4	r4.3	r1.2	r-0.1	r2.6	0.6	r0.8	r0.6

See footnotes following Table 6.
r=revised

August 8, 2000
Source: Bureau of Labor Statistics

SOURCES: Output data are from the Bureau of Economic Analysis and the Census Bureau of the U.S. Department of Commerce; the Bureau of Labor Statistics, U.S. Department of Labor; and the Federal Reserve Board. Compensation and hours data are from the Bureau of Labor Statistics and the Bureau of Economic Analysis.

RELIABILITY: Productivity and cost measures are regularly revised as more complete information becomes available. The measures are first published within 40 days of the close of the reference period; revisions appear 30 days later and second revisions after an additional 60 days. In the business sector, the third publication (second revision) of a quarterly index of output per hour of all persons has differed from the initial value by between -1.7 and $+2.4$ index points approximately 95 percent of the time. This interval is based on the performance of this measure between the fourth quarter of 1995 and the first quarter of 2000.

Footnotes, Tables 1-6

- (1) Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Except for nonfinancial corporations, where there are no self-employed, data also include an estimate of wages, salaries, and supplemental payments for the self-employed.
- (2) The change for recent quarters is based on the Consumer Price Index for all urban consumers (CPI-U). The trend from 1978-1999 is based on the Consumer Price Index research series (CPI-U-RS).
- (3) Unit nonlabor payments include profits, capital consumption allowances, interest, rental income of persons, and indirect taxes.
- (4) Current dollar output divided by the output index.
- (5) Quarterly changes: Percent change compounded at annual rate from the original data rather than index numbers. Annual changes: Percent change between annual average levels.
- (6) Unit nonlabor costs include capital consumption allowances, interest, rental income of persons, and indirect taxes. For nonfinancial corporations, rental income of persons is zero by definition.
- (7) Total unit costs are the sum of unit labor and nonlabor costs.
- (8) Unit profits include corporate profits with inventory valuation and capital consumption adjustments.

Appendix table 1.

Business sector: Revised productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs	Unit non-labor payments (3)	Implicit price deflator (4)
Indexes 1992=100									
1995	I	102.0	110.5	108.3	105.5	99.1	103.5	108.9	105.5
	II	102.3	110.8	108.2	106.4	99.1	104.0	109.2	105.9
	III	102.5	111.8	109.1	107.1	99.3	104.5	109.4	106.3
	IV	103.4	112.9	109.2	108.0	99.5	104.4	110.3	106.6
	ANNUAL	102.6	111.5	108.7	106.7	99.3	104.1	109.4	106.0
1996	I	104.5	114.0	109.2	108.6	99.4	104.0	112.3	107.0
	II	105.6	116.1	110.0	109.7	99.5	103.9	113.7	107.5
	III	105.6	116.8	110.7	110.7	99.9	104.8	113.3	108.0
	IV	106.0	118.4	111.7	111.5	99.9	105.2	113.7	108.4
	ANNUAL	105.4	116.4	110.4	110.1	99.7	104.5	113.3	107.7
1997	I	106.3	119.9	112.8	112.0	99.8	105.4	115.3	109.1
	II	107.3	122.0	113.7	112.3	99.8	104.7	118.0	109.6
	III	108.3	123.5	114.1	113.5	100.4	104.8	118.5	109.9
	IV	108.5	124.4	114.7	115.3	101.5	106.3	116.8	110.2
	ANNUAL	107.6	122.5	113.8	113.3	100.4	105.3	117.1	109.7
Percent change from previous quarter at annual rate(5)									
1995	I	-1.3	1.4	2.7	1.7	-0.7	3.1	2.1	2.7
	II	1.3	0.8	-0.5	3.3	0.0	1.9	1.0	1.6
	III	0.6	3.7	3.2	2.6	0.5	2.0	0.8	1.5
	IV	3.6	4.1	0.4	3.4	1.1	-0.2	3.5	1.2
	ANNUAL	0.7	3.1	2.4	2.1	-0.4	1.4	2.8	2.0
1996	I	4.1	4.1	0.0	2.4	-0.6	-1.7	7.3	1.7
	II	4.3	7.6	3.1	4.1	0.6	-0.2	5.2	1.9
	III	0.0	2.4	2.5	3.6	1.5	3.6	-1.4	1.6
	IV	1.6	5.5	3.9	3.0	0.1	1.4	1.6	1.5
	ANNUAL	2.8	4.4	1.6	3.2	0.4	0.4	3.5	1.6
1997	I	1.2	5.2	4.0	1.9	-0.6	0.7	5.6	2.6
	II	4.0	7.1	3.0	1.1	0.0	-2.8	9.7	1.9
	III	3.6	4.9	1.3	4.2	2.5	0.7	1.6	1.0
	IV	0.8	3.2	2.4	6.5	4.4	5.7	-5.5	1.1
	ANNUAL	2.1	5.2	3.1	2.9	0.7	0.8	3.4	1.8
Percent change from corresponding quarter of previous year									
1995	I	0.4	4.3	3.9	1.1	-1.3	0.7	4.5	2.1
	II	0.5	2.6	2.1	2.1	-0.6	1.6	3.0	2.1
	III	0.8	3.0	2.2	2.6	0.1	1.7	2.1	1.9
	IV	1.0	2.5	1.5	2.7	0.2	1.7	1.8	1.7
	ANNUAL	0.7	3.1	2.4	2.1	-0.4	1.4	2.8	2.0
1996	I	2.4	3.2	0.8	2.9	0.3	0.5	3.1	1.5
	II	3.2	4.9	1.7	3.1	0.4	0.0	4.2	1.6
	III	3.0	4.5	1.5	3.4	0.6	0.4	3.6	1.6
	IV	2.5	4.9	2.3	3.3	0.4	0.8	3.1	1.7
	ANNUAL	2.8	4.4	1.6	3.2	0.4	0.4	3.5	1.6
1997	I	1.7	5.2	3.3	3.2	0.4	1.4	2.7	1.9
	II	1.7	5.0	3.3	2.4	0.3	0.7	3.8	1.9
	III	2.6	5.7	3.0	2.6	0.5	0.0	4.6	1.8
	IV	2.3	5.1	2.7	3.4	1.6	1.0	2.7	1.7
	ANNUAL	2.1	5.2	3.1	2.9	0.7	0.8	3.4	1.8

See footnotes following Table 6.

August 8, 2000

Source: Bureau of Labor Statistics

Appendix table 2.

Nonfarm business sector: Revised productivity, hourly compensation, unit labor costs, and prices, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs	Unit non-labor payments (3)	Implicit price deflator (4)
Indexes 1992=100									
1995	I	102.2	110.8	108.4	105.4	99.0	103.1	110.0	105.6
	II	102.6	111.1	108.3	106.2	99.0	103.6	110.4	106.0
	III	102.8	112.2	109.2	106.9	99.1	104.0	110.4	106.3
	IV	103.6	113.3	109.4	107.7	99.3	104.0	110.9	106.5
	ANNUAL	102.8	111.8	108.8	106.6	99.2	103.7	110.4	106.1
1996	I	104.6	114.4	109.4	108.4	99.2	103.7	112.7	106.9
	II	105.6	116.4	110.3	109.4	99.3	103.7	113.8	107.3
	III	105.5	117.2	111.0	110.3	99.6	104.5	113.4	107.7
	IV	105.9	118.7	112.1	111.1	99.6	104.9	114.2	108.3
	ANNUAL	105.4	116.7	110.7	109.8	99.5	104.2	113.5	107.6
1997	I	106.1	120.2	113.3	111.7	99.5	105.2	115.9	109.1
	II	107.1	122.2	114.1	112.0	99.5	104.5	118.8	109.7
	III	108.0	123.6	114.5	113.0	100.0	104.7	119.5	110.1
	IV	108.1	124.7	115.3	114.7	101.0	106.1	117.8	110.4
	ANNUAL	107.3	122.7	114.3	112.9	100.0	105.1	118.0	109.8
Percent change from previous quarter at annual rate(5)									
1995	I	-0.8	1.8	2.6	1.7	-0.8	2.5	3.0	2.7
	II	1.3	1.0	-0.3	3.2	-0.1	1.8	1.3	1.6
	III	0.9	4.1	3.2	2.7	0.6	1.8	0.1	1.1
	IV	3.1	3.8	0.8	3.1	0.9	0.1	1.9	0.7
	ANNUAL	0.9	3.4	2.4	2.1	-0.4	1.2	3.2	2.0
1996	I	4.0	3.9	-0.1	2.5	-0.5	-1.4	6.6	1.6
	II	3.8	7.4	3.5	3.8	0.3	0.0	4.2	1.6
	III	-0.1	2.5	2.6	3.2	1.1	3.3	-1.5	1.4
	IV	1.4	5.6	4.1	3.0	0.1	1.6	3.0	2.1
	ANNUAL	2.5	4.3	1.7	3.0	0.3	0.5	2.8	1.4
1997	I	0.7	4.8	4.1	2.0	-0.5	1.3	6.0	3.1
	II	3.9	7.1	3.0	1.1	0.1	-2.7	10.3	2.2
	III	3.2	4.6	1.4	3.8	2.1	0.6	2.4	1.3
	IV	0.6	3.4	2.8	6.1	4.1	5.5	-5.4	1.1
	ANNUAL	1.8	5.1	3.2	2.8	0.6	0.9	3.9	2.1
Percent change from corresponding quarter of previous year									
1995	I	0.8	4.6	3.8	1.2	-1.2	0.4	5.5	2.3
	II	0.7	2.9	2.2	2.1	-0.6	1.3	3.7	2.2
	III	1.2	3.4	2.2	2.6	0.2	1.4	2.3	1.7
	IV	1.1	2.7	1.6	2.7	0.2	1.5	1.6	1.5
	ANNUAL	0.9	3.4	2.4	2.1	-0.4	1.2	3.2	2.0
1996	I	2.3	3.2	0.9	2.9	0.2	0.6	2.4	1.3
	II	2.9	4.8	1.8	3.0	0.3	0.1	3.1	1.2
	III	2.7	4.4	1.7	3.2	0.4	0.5	2.7	1.3
	IV	2.3	4.8	2.5	3.1	0.2	0.8	3.0	1.7
	ANNUAL	2.5	4.3	1.7	3.0	0.3	0.5	2.8	1.4
1997	I	1.4	5.1	3.6	3.0	0.3	1.5	2.9	2.0
	II	1.5	5.0	3.5	2.3	0.2	0.8	4.4	2.2
	III	2.3	5.5	3.2	2.5	0.4	0.2	5.4	2.2
	IV	2.1	5.0	2.8	3.2	1.4	1.1	3.2	1.9
	ANNUAL	1.8	5.1	3.2	2.8	0.6	0.9	3.9	2.1

See footnotes following Table 6.

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Source: Bureau of Labor Statistics

Appendix table 3.

Manufacturing sector: Revised productivity, hourly compensation, and unit labor costs, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs

Indexes 1992=100							
1995	I	107.7	113.2	105.1	106.8	100.3	99.2
	II	108.9	113.2	104.0	107.8	100.4	99.0
	III	109.8	113.8	103.7	108.4	100.5	98.7
	IV	110.7	114.5	103.4	108.6	100.1	98.1
	ANNUAL	109.3	113.7	104.0	107.9	100.4	98.7
1996	I	111.6	114.5	102.6	108.4	99.2	97.2
	II	112.5	116.8	103.8	108.9	98.8	96.8
	III	113.9	118.5	104.1	109.6	98.9	96.2
	IV	114.5	119.4	104.2	110.3	98.9	96.3
	ANNUAL	113.1	117.3	103.7	109.3	99.0	96.6
1997	I	115.2	121.0	105.0	110.4	98.3	95.8
	II	116.3	122.8	105.6	110.5	98.1	95.0
	III	118.7	125.0	105.3	111.5	98.6	93.9
	IV	120.1	127.3	106.0	113.3	99.8	94.4
	ANNUAL	117.6	124.0	105.5	111.4	98.8	94.8

Percent change from previous quarter at annual rate(5)							
1995	I	5.0	5.1	0.2	1.0	-1.3	-3.7
	II	4.7	0.3	-4.3	3.8	0.5	-0.8
	III	3.3	2.1	-1.2	2.2	0.2	-1.0
	IV	3.1	2.3	-0.8	0.7	-1.4	-2.3
	ANNUAL	3.9	4.3	0.4	2.1	-0.4	-1.7
1996	I	3.4	0.1	-3.2	-0.6	-3.5	-3.9
	II	3.3	8.3	4.8	1.9	-1.6	-1.3
	III	5.0	6.1	1.0	2.3	0.3	-2.5
	IV	2.4	3.0	0.6	2.8	-0.1	0.4
	ANNUAL	3.5	3.2	-0.3	1.3	-1.4	-2.1
1997	I	2.3	5.4	3.0	0.3	-2.1	-2.0
	II	4.0	6.3	2.3	0.2	-0.8	-3.6
	III	8.6	7.3	-1.2	3.8	2.1	-4.4
	IV	4.6	7.5	2.7	6.7	4.6	2.0
	ANNUAL	3.9	5.7	1.7	1.9	-0.2	-1.9

Percent change from corresponding quarter of previous year							
1995	I	3.9	6.8	2.8	1.6	-0.8	-2.2
	II	3.6	4.5	0.9	2.5	-0.2	-1.1
	III	3.9	3.6	-0.3	2.4	0.0	-1.4
	IV	4.0	2.4	-1.5	2.0	-0.5	-2.0
	ANNUAL	3.9	4.3	0.4	2.1	-0.4	-1.7
1996	I	3.6	1.2	-2.4	1.5	-1.1	-2.0
	II	3.3	3.1	-0.1	1.1	-1.6	-2.1
	III	3.7	4.1	0.4	1.1	-1.6	-2.5
	IV	3.5	4.3	0.8	1.6	-1.3	-1.8
	ANNUAL	3.5	3.2	-0.3	1.3	-1.4	-2.1
1997	I	3.2	5.7	2.4	1.8	-0.9	-1.4
	II	3.4	5.2	1.7	1.4	-0.7	-1.9
	III	4.3	5.5	1.1	1.8	-0.3	-2.4
	IV	4.9	6.6	1.7	2.7	0.9	-2.0
	ANNUAL	3.9	5.7	1.7	1.9	-0.2	-1.9

See footnotes following Table 6.

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Source: Bureau of Labor Statistics

Appendix table 4. Durable manufacturing sector: Revised productivity, hourly compensation, and unit labor costs, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs

Indexes 1992=100							
1995	I	111.8	119.3	106.8	106.7	100.2	95.5
	II	112.8	119.5	106.0	107.6	100.3	95.5
	III	113.9	120.7	106.0	108.1	100.2	94.9
	IV	115.2	122.3	106.2	107.7	99.3	93.5
	ANNUAL	113.4	120.5	106.2	107.5	100.1	94.8
1996	I	116.6	123.1	105.6	106.8	97.8	91.6
	II	118.2	127.0	107.5	107.0	97.1	90.5
	III	119.7	129.1	107.8	107.5	97.0	89.8
	IV	120.3	129.8	108.0	108.0	96.8	89.8
	ANNUAL	118.7	127.3	107.2	107.3	97.2	90.4
1997	I	120.7	132.1	109.5	107.8	96.0	89.3
	II	122.7	135.4	110.3	107.8	95.8	87.9
	III	125.7	138.6	110.3	108.8	96.3	86.6
	IV	127.9	142.0	111.1	110.9	97.7	86.8
	ANNUAL	124.2	137.0	110.3	108.9	96.5	87.6

Percent change from previous quarter at annual rate(5)							
1995	I	6.9	7.7	0.7	1.0	-1.4	-5.6
	II	3.6	0.5	-3.0	3.6	0.3	0.0
	III	4.2	4.2	0.0	1.6	-0.4	-2.5
	IV	4.6	5.5	0.8	-1.4	-3.6	-5.8
	ANNUAL	4.7	6.2	1.5	1.8	-0.7	-2.8
1996	I	5.1	2.6	-2.3	-3.1	-5.9	-7.7
	II	5.5	13.2	7.4	0.6	-2.8	-4.6
	III	5.0	6.6	1.5	1.7	-0.3	-3.2
	IV	2.1	2.5	0.4	1.9	-1.0	-0.2
	ANNUAL	4.7	5.6	0.9	-0.2	-2.9	-4.6
1997	I	1.4	7.2	5.7	-0.6	-3.0	-2.0
	II	6.8	10.2	3.2	0.1	-0.9	-6.2
	III	10.0	9.9	-0.1	3.8	2.1	-5.6
	IV	7.2	10.2	2.8	7.9	5.8	0.6
	ANNUAL	4.7	7.7	2.9	1.4	-0.7	-3.1

Percent change from corresponding quarter of previous year							
1995	I	5.3	9.2	3.7	1.4	-1.0	-3.6
	II	4.3	6.4	1.9	2.3	-0.4	-1.9
	III	4.3	5.0	0.7	2.2	-0.2	-2.0
	IV	4.8	4.4	-0.4	1.2	-1.3	-3.5
	ANNUAL	4.7	6.2	1.5	1.8	-0.7	-2.8
1996	I	4.4	3.2	-1.1	0.1	-2.4	-4.1
	II	4.8	6.3	1.4	-0.6	-3.2	-5.2
	III	5.0	6.9	1.8	-0.6	-3.2	-5.3
	IV	4.4	6.1	1.7	0.3	-2.5	-4.0
	ANNUAL	4.7	5.6	0.9	-0.2	-2.9	-4.6
1997	I	3.5	7.3	3.7	0.9	-1.8	-2.5
	II	3.8	6.6	2.7	0.8	-1.3	-2.9
	III	5.0	7.4	2.3	1.3	-0.7	-3.5
	IV	6.3	9.4	2.9	2.8	0.9	-3.4
	ANNUAL	4.7	7.7	2.9	1.4	-0.7	-3.1

See footnotes following Table 6.

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Source: Bureau of Labor Statistics

Appendix table 5. Nondurable manufacturing sector: Revised productivity, hourly compensation, and unit labor costs, seasonally adjusted

Year and quarter		Output per hour of all persons	Output	Hours of all persons	Compensation per hour (1)	Real compensation per hour (2)	Unit labor costs
Indexes 1992=100							
1995	I	104.2	107.2	102.9	106.5	100.1	102.2
	II	105.8	107.1	101.3	107.5	100.2	101.7
	III	106.4	107.1	100.6	108.3	100.4	101.8
	IV	106.9	106.7	99.8	109.4	100.9	102.3
	ANNUAL	105.8	107.0	101.1	107.9	100.4	102.0
1996	I	107.4	106.0	98.7	110.3	100.9	102.7
	II	107.8	106.7	99.0	111.3	101.0	103.2
	III	109.3	108.3	99.1	112.2	101.3	102.6
	IV	110.3	109.5	99.3	113.4	101.6	102.8
	ANNUAL	108.7	107.6	99.0	111.8	101.2	102.8
1997	I	111.7	110.7	99.1	113.7	101.3	101.9
	II	112.1	111.3	99.3	113.8	101.1	101.5
	III	114.2	112.6	98.6	114.8	101.6	100.5
	IV	114.8	113.9	99.2	116.2	102.3	101.2
	ANNUAL	113.2	112.1	99.1	114.6	101.6	101.3
Percent change from previous quarter at annual rate(5)							
1995	I	2.6	1.9	-0.6	1.0	-1.4	-1.5
	II	6.1	-0.2	-6.0	3.9	0.6	-2.1
	III	2.5	-0.3	-2.7	3.0	0.9	0.5
	IV	1.9	-1.4	-3.2	4.0	1.7	2.1
	ANNUAL	3.1	2.1	-1.0	2.4	-0.1	-0.7
1996	I	1.9	-2.6	-4.3	3.4	0.3	1.5
	II	1.5	2.9	1.3	3.7	0.1	2.1
	III	5.6	6.1	0.4	3.2	1.1	-2.3
	IV	3.6	4.5	0.8	4.2	1.3	0.5
	ANNUAL	2.7	0.6	-2.1	3.6	0.8	0.8
1997	I	5.1	4.2	-0.8	1.4	-1.1	-3.5
	II	1.5	2.5	0.9	0.2	-0.8	-1.3
	III	7.9	4.7	-3.0	3.6	1.9	-4.0
	IV	2.0	4.7	2.6	4.8	2.7	2.7
	ANNUAL	4.1	4.2	0.0	2.5	0.4	-1.5
Percent change from corresponding quarter of previous year							
1995	I	2.6	4.3	1.6	1.7	-0.7	-0.9
	II	3.0	2.4	-0.5	2.4	-0.3	-0.5
	III	3.6	1.8	-1.7	2.6	0.1	-1.0
	IV	3.2	0.0	-3.1	3.0	0.5	-0.3
	ANNUAL	3.1	2.1	-1.0	2.4	-0.1	-0.7
1996	I	3.1	-1.1	-4.1	3.5	0.9	0.5
	II	1.9	-0.4	-2.3	3.5	0.8	1.5
	III	2.7	1.2	-1.5	3.6	0.8	0.8
	IV	3.1	2.7	-0.5	3.6	0.7	0.5
	ANNUAL	2.7	0.6	-2.1	3.6	0.8	0.8
1997	I	3.9	4.4	0.4	3.1	0.4	-0.8
	II	4.0	4.3	0.3	2.2	0.1	-1.6
	III	4.5	4.0	-0.5	2.3	0.3	-2.1
	IV	4.1	4.0	-0.1	2.5	0.7	-1.6
	ANNUAL	4.1	4.2	0.0	2.5	0.4	-1.5

See footnotes following Table 6.

August 8, 2000

Source: Bureau of Labor Statistics

Appendix table 6. Nonfinancial corporations: Revised productivity, hourly compensation, unit labor costs, unit profits, and prices, seasonally adjusted

Year and quarter	Output per all-employee hour	Output	Employee hours	Hourly compensation (1)	Real hourly compensation(2)	Unit labor costs	Unit non-labor costs(6)	Total unit costs (7)	Unit profits (8)	Implicit price deflator (4)
Indexes 1992=100										
1995	I	103.1	112.5	109.0	105.2	98.8	102.0	102.3	102.1	134.2
	II	103.7	113.2	109.2	105.9	98.7	102.2	102.8	102.3	134.5
	III	104.7	115.0	109.8	106.5	98.7	101.7	101.6	101.7	143.6
	IV	105.4	116.0	110.1	107.1	98.7	101.6	102.0	101.7	143.3
	ANNUAL	104.3	114.2	109.5	106.2	98.9	101.9	102.2	102.0	139.0
1996	I	106.2	117.0	110.1	107.6	98.5	101.3	101.3	101.3	150.5
	II	107.1	119.1	111.2	108.6	98.5	101.4	100.7	101.2	151.8
	III	107.9	120.7	111.9	109.5	98.9	101.5	100.3	101.2	151.9
	IV	108.9	122.9	112.9	110.2	98.8	101.2	100.2	100.9	154.6
	ANNUAL	107.6	119.9	111.4	109.1	98.8	101.4	100.6	101.2	152.2
1997	I	108.8	124.0	113.9	110.8	98.7	101.8	100.5	101.4	154.6
	II	109.3	125.8	115.1	111.1	98.7	101.6	101.4	101.6	155.3
	III	110.8	128.4	115.8	112.1	99.2	101.2	100.8	101.1	160.3
	IV	111.6	130.5	116.9	113.7	100.1	101.9	100.4	101.5	156.5
	ANNUAL	110.2	127.2	115.4	112.0	99.3	101.6	100.8	101.4	156.7
Percent change from previous quarter at annual rate(5)										
1995	I	-2.4	0.6	3.0	1.9	-0.5	4.4	5.3	4.6	-16.6
	II	2.0	2.8	0.7	2.6	-0.6	0.6	2.0	0.9	0.8
	III	4.0	6.4	2.3	2.2	0.2	-1.8	-4.3	-2.5	30.1
	IV	2.6	3.7	1.1	2.3	0.1	-0.3	1.4	0.2	-0.8
	ANNUAL	1.0	4.2	3.1	1.9	-0.6	0.8	0.9	0.8	5.5
1996	I	3.3	3.3	0.0	1.9	-1.1	-1.4	-2.9	-1.8	21.7
	II	3.4	7.4	3.8	3.8	0.2	0.4	-2.1	-0.3	3.3
	III	2.9	5.6	2.6	3.5	1.4	0.5	-1.6	-0.1	0.4
	IV	3.9	7.5	3.5	2.7	-0.2	-1.2	-0.7	-1.0	7.1
	ANNUAL	3.2	5.0	1.8	2.7	-0.1	-0.5	-1.5	-0.8	9.5
1997	I	-0.3	3.5	3.7	2.0	-0.5	2.2	1.5	2.0	0.1
	II	1.6	6.0	4.3	1.0	-0.1	-0.6	3.5	0.5	1.8
	III	5.9	8.5	2.5	3.9	2.2	-1.8	-2.3	-2.0	13.5
	IV	2.8	6.6	3.7	5.7	3.7	2.8	-1.7	1.6	-9.2
	ANNUAL	2.4	6.0	3.5	2.7	0.5	0.3	0.2	0.2	2.9
Percent change from corresponding quarter of previous year										
1995	I	0.2	5.0	4.8	1.1	-1.3	0.9	-0.8	0.5	12.2
	II	0.7	4.0	3.2	1.9	-0.8	1.1	2.7	1.5	2.4
	III	1.7	4.4	2.7	2.3	-0.1	0.6	0.6	0.6	6.5
	IV	1.6	3.3	1.7	2.2	-0.2	0.7	1.1	0.8	2.0
	ANNUAL	1.0	4.2	3.1	1.9	-0.6	0.8	0.9	0.8	5.5
1996	I	3.0	4.0	1.0	2.2	-0.4	-0.7	-1.0	-0.8	12.2
	II	3.3	5.2	1.8	2.5	-0.2	-0.8	-2.0	-1.1	12.8
	III	3.1	5.0	1.9	2.8	0.1	-0.2	-1.3	-0.5	5.8
	IV	3.4	5.9	2.5	2.9	0.1	-0.4	-1.8	-0.8	7.8
	ANNUAL	3.2	5.0	1.8	2.7	-0.1	-0.5	-1.5	-0.8	9.5
1997	I	2.5	6.0	3.4	3.0	0.2	0.5	-0.7	0.2	2.7
	II	2.0	5.6	3.5	2.3	0.1	0.2	0.7	0.4	2.3
	III	2.8	6.4	3.5	2.4	0.4	-0.4	0.5	-0.1	5.5
	IV	2.5	6.1	3.6	3.1	1.3	0.6	0.2	0.5	1.2
	ANNUAL	2.4	6.0	3.5	2.7	0.5	0.3	0.2	0.2	2.9

See footnotes following Table 6.

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Source: Bureau of Labor Statistics